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APPLICATION NO.	FILING DATE	FIRST NAMED	INVENTOR		ATTORNEY DOCKET NO
09/614,286	07/12/00	TANABE		H	NECK 17.552
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trad marks

Office Action Summary    TANABE, HIROSH    Examiner		Applicati n No.	Applicant(s)				
Period f r Repty  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION.  Edinations of time may be available used the provision of 30 CPR 1.15(g). In no event, however, may a repty be timely filed.  If the period for repty specified above is less than thirty (Oil date, a celly within the statutory minimum of bilety (30) May will be considered timely.  If the period for repty specified above is less than the provision of the period for repty specified above is less than the provision of the period for repty specified above is less than the provision of the period for repty specified above is less than the provision of the period for repty specified above is less than the provision of the period for repty specified above is less than the provision of the period for repty specified above is less than the mailing dies of this communication, oven distinctly provided with the period patent term adjustment. See 37 CFR 1.704(b).  Status  1) Responsive to communication(s) filed on	Office Action Summary	09/614,286	TANABE, HIROSHI				
Period fr Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Estandards of them may be available under the provisions of 37 CPR 1.13(6). In no event, however, may a reply be limely filled above. The maximum of 31 CPR 1.13(6). In no event, however, may a reply be limely filled above, the maximum of 31 CPR 1.13(6). In no event, however, may a reply be limely filled above, the maximum of 31 CPR 1.13(6). In no event, however, may a reply be limely filled above, the maximum of states provided with set of the considered timely.  - If NO period for reply is specified above, the maximum distancy provided usely with all the statutory informs on thisty 70 days, will be considered timely.  - If NO period for reply is a specified above, the maximum distancy provided usely will not estance to the specified above, the maximum distancy provided usely will not estance to 13 (1) (2) (3) (13 U.S. 2 13).  - Any reply received by the Office above, the maximum distance provided usely will not estance to 13 (1) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	i i	Examiner	Art Unit				
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U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

Notice of References Cited (PTO-892)
 Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.4.7.

Attachment(s)

6) Other:

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# **DETAILED ACTION**

#### **Drawings**

1. Figure 1 is objected to as failing to comply with 37 CFR 1.84(p)(5) because it includes the following reference sign(s) not mentioned in the description: 1106 (figure 1) and 118 (figure 1). Correction is required.

## Specification

2. The disclosure is objected to because of the following informalities that are not described about in the specification: numbers 1106 and 118 in figure 1. Appropriate correction is required.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 4. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Makita et al. (U.S. 5,821,562).

Re claim 1, Makita et al. discloses a method for forming a first-property semiconductor film at a desired position on a substrate, comprising the steps of: a) preparing the substrate having a second-property semiconductor film formed thereon (see column 30, lines 58-61); b) preparing an optical mask having a predetermined pattern (see column 32, lines 30-35); c) relatively positioning a projection area of the

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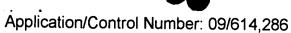
optical mask at the desired position on the substrate (see column 32, lines 30-35); d) irradiating the desired position of the second-property semiconductor film with laser light through the optical mask to change an irradiated portion of the second-property semiconductor film to the first-property semiconductor film (see column 32, lines 43-52); and e) forming an insulation film on at least the first-property semiconductor film (see column 32, lines 53-60).

Re claim 2, as applied to claim 1 above, Makita et al. discloses all of the claimed limitation including the limitation wherein the substrate has an alignment mark previously formed thereon, wherein the alignment mark is used to position the projected area of the optical mask in step (c) (see column 27, lines 39-44).

Re claim 3, as applied to claim 1 above, Makita et al. discloses all of the claimed limitation including the limitation wherein the optical mask has an alignment mark pattern, wherein, in the step (d), an alignment mark corresponding to the alignment mark pattern is formed, wherein the alignment mark is visible due to a difference in optical characteristic between the first-property semiconductor film and the second-property semiconductor film (see column 27-19-29).

Re claim 4, as applied to claim 3 above, Makita et al. discloses all of the claimed limitation including the limitation wherein a positioning process after the step (d) is performed with reference to the alignment mark (see column 27, lines 39-44).

Re claim 5, as applied to claim 1 above, Makita et al. discloses all of the claimed limitation including the limitation wherein the first-property semiconductor film is a



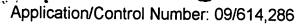
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single-crystal semiconductor film and the second-property semiconductor film is an amorphous semiconductor film (see column 9, lines 35-55).

Re claim 6, as applied to claim 3 above, Makita et al. discloses all of the claimed limitation including the limitation wherein the first-property semiconductor film is a crystalline semiconductor film and the second-property semiconductor film is an amorphous semiconductor film (see column 30, lines 55-62 and column 32, lines 40-55).

Re claim 7, Makita et al. discloses a method for forming a crystalline semiconductor film at a desired position on a substrate, comprising the steps of: a) preparing the substrate having an amorphous semiconductor film formed thereon (see column 30, lines 58-61); b) preparing an optical mask having a predetermined pattern (see column 32, lines 30-35); c) relatively positioning a projection area of the optical mask at the desired position on the substrate (see column 32, lines 30-35); d) irradiating the desired position of the amorphous semiconductor film with laser light through the optical mask to change an irradiated portion of the amorphous semiconductor film to the crystalline semiconductor film (see column 32, lines 43-52); and e) forming an insulation film on at least the first-property semiconductor film (see column 32, lines 53-60).

Re claim 8, as applied to claim 7 above, Makita et al. discloses all of the claimed limitation including the limitation further comprising the step of f) forming an island comprised of the insulation film and the crystalline semiconductor film by a patterning process, wherein the crystalline semiconductor film of the island is a single-crystal



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semiconductor film used for source, drain, and channel regions of a field effect transistor (see column 33, lines 38-43).

Re claim 9, as applied to claim 7 above, Makita et al. discloses all of the claimed limitation including the limitation wherein the substrate has an alignment mark previously formed thereon, wherein the alignment mark is used to position the projected area of the optical mask in the step (c) (see column 27, lines 39-44).

Re claim 10, as applied to claim 7 above, Makita et al. discloses all of the claimed limitation including the limitation wherein the optical mask has an alignment mark pattern, wherein, in the step (d), an alignment mark corresponding to the alignment mark pattern is formed, wherein the alignment mark is visible due to a difference in optical characteristic between the crystalline semiconductor film and the amorphous semiconductor film (see column 27, lines 19-29).

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy J Sutton whose telephone number is 703-305-0070. The examiner can normally be reached on M-F 7:30am-4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Bowers can be reached on 703-308-2417. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.



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tjs October 29, 2001

Charles Bowers.

Supervisory Patent Examiner Technology Center 2800